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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/901,256	07/09/2001	Jie Liu	P/2778-16	7791	
2352	7590 05/12/2003				
OSTROLENK FABER GERB & SOFFEN			EXAMINER		
	JE OF THE AMERICA , NY 100368403	S	HEITBRINK,	TIMOTHY W	
			ART UNIT	PAPER NUMBER	
			1722		
			DATE MAILED: 05/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	plication No.	Applicant(s)				
		9/901,256	LIU ET AL.				
Office Action Sum	mary Ex	aminer	Art Unit				
		n Heitbrink	1722				
The MAILING DATE of this Period for Reply	communication appears	on th cover shee	t with the correspondence add	dress			
A SHORTENED STATUTORY P THE MAILING DATE OF THIS C - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less - If NO period for reply is specified above, the - Failure to reply within the set or extended period for the set of the set	OMMUNICATION. the provisions of 37 CFR 1.136(a). than thirty (30) days, a reply with maximum statutory period will ap priod for reply will, by statute, caus tree months after the mailing date	In no event, however, mann the statutory minimum of bly and will expire SIX (6) at the application to become	y a reply be timely filed If thirty (30) days will be considered timely. MONTHS from the mailing date of this core ABANDONED (35 U.S.C. & 133)	mmunication.			
Status							
1) Responsive to communication							
2a) This action is FINAL.	•	tion is non-final.					
3) Since this application is in closed in accordance with Disposition of Claims	the practice under Ex p	except for formal earte Quayle, 1935	matters, prosecution as to the C.D. 11, 453 O.G. 213.	e merits is			
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-7</u> is/are allowed.							
6)⊠ Claim(s) <u>8-12 and 14</u> is/are rejected.							
7) Claim(s) 13 is/are objected	to.						
8) Claim(s) are subject	to restriction and/or ele	ction requirement.					
Application Papers		·					
9)☐ The specification is objected	I to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14)☐ Acknowledgment is made of		· ·	·	application).			
a) ☐ The translation of the fo 15)☐ Acknowledgment is made of	reign language provisio	nal application has	been received.	., ,			
Attachment(s)	•	•	JU :=:				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (PTo		4) Intervie 5) Notice 6) Other:	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-	152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action S	ummary	Part of Paper No. 5				

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The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the a first and second movable carriage must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The disclosure is objected to because of the following informalities: "1" (page 5, line 4) should be changed to --4--. Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Harmsen et al.

Harmsen et al. disclose a molding apparatus for molding a material around a semiconductor chip, the mold comprising a lower mold 22, 23 and an upper mold (not shown), the mold halves being movable between an open position, in which a substrate and a semiconductor chip mounted thereon can be inserted into the mold halves and a molded substrate and semiconductor chip can be removed from the mold halves, and a closed position, in which a molding operation can be performed, a first movable carriage 7 adapted to insert a substrate and a semiconductor chip mounted thereon into the

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mold, a second carriage 8 adapted to remove a molded substrate and semiconductor chip from the mold, a first cleaning device 21 mounted on the first carriage to clean a surface of the mold halves before a substrate and a semiconductor chip are placed in the mold, and a second cleaning device 24 mounted on the second carriage to clean the mold halves after a molded substrate and semiconductor chip is removed from the mold. See column 2, line 64 through column 3, line 25.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harmsen et al.

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While the second cleaning device is a brush and the first cleaning device is a suction cleaning device, switching the cleaning devices would have been obvious to one of ordinary skill in the art since they both perform the same function.

Claims 10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harmsen et al. as applied to claims 8,9,11 and 12 above, and further in view of Miura et al.

While Harmsen et al. does not use a fabric material as the first cleaning device, Miura et al. teaches cloth used as a conventional cleaning aid in the analogous art of extrusion used to clean plastic equipment. See column 1, lines 48-50.

It would have been obvious to one having ordinary skill in the art at the time the invention to use fabric as the material used to clean the molds of Harmsen et al. as part of the first cleaning device as suggested by Miura et al. in order to clean plastic equipment.

Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-7 are allowed.

The above claims define over the prior art since the prior art fails to disclose or suggest a manifold coupled to a suction device having a first conduit, a second conduit, and first and second openings as set forth in the claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Heitbrink whose telephone number is 703-308-3789. The examiner can normally be reached on Tuesday-Friday 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 703-308-0457. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Linkbeebreik
Tim Heitbrink
Primary Examiner
Art Unit 1722

twh May 9, 2003 5-9-03